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	Application No.	Applicant(s)
	10/710,001	MO ET AL.
Notice of Allowability	Examiner	Art Unit
	Stanetta D. Isaac	2812
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject to	plication. If not included now will be mailed in due course. THIS
1. A This communication is responsive to the Ex parte Quayle for	iled on 2/6/06.	
2. 🗵 The allowed claim(s) is/are <u>1-22</u> .		
 3. ☐ Acknowledgment is made of a claim for foreign priority una) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 	been received.	
Certified copies of the priority documents have	• • • • • • • • • • • • • • • • • • • •	
Copies of the certified copies of the priority do	cuments have been received in this	national stage application from the
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give		
5. CORRECTED DRAWINGS (as "replacement sheets") mus	et be submitted.	
(a) ☐ including changes required by the Notice of Draftspers		-948) attached
1) hereto or 2) to Paper No./Mail Date		•
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the C	Office action of
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the		
 DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT I 	sit of BIOLOGICAL MATERIAL I FOR THE DEPOSIT OF BIOLOGIC	must be submitted. Note the AL MATERIAL.
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. Notice of Informal C	Potent Application (RTO 152)
Notice of References Cited (PTO-692) Notice of Draftperson's Patent Drawing Review (PTO-948)		Patent Application (PTO-152)
_	6. ☐ Interview Summary Paper No./Mail Da 8), 7. ☐ Examiner's Amendr	te
Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date Transports Comment Bounding Bounding Bounding		
 Examiner's Comment Regarding Requirement for Deposit of Biological Material 		ent of Reasons for Allowance
	9. Other	
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		LLEBENTRITT PATENT EXAMINER

REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance:

The closest prior art of record, Sato et al., US Patent 6,798,038, alone or in combination thereof, fails to show the following steps of:

Pertaining to independent claims 1 and 10, "depositing a single deposition step an isolation insulator layer in said isolation apertures to a depth sufficient to fill said isolation apertures above said device layer by a first margin that is less than the thickness of said pad insulator..." and "etching said pad insulator layer with an etchant that does not attack said isolation insulator layer, whereby said pad insulator and said remaining portion of said isolation insulator layer are removed in the same step and said isolation plugs fill said apertures without CMP."

Pertaining to independent claim 19, "etching said isolation insulator layer such that said sidewall thickness of said isolation insulator on said isolation aperture walls is removed and remaining isolation plugs of said insulator layer fill said apertures substantially coplanar with said device layer, without CMP" and "etching said pad insulator layer with an etchant that does not attack said isolation insulator layer, whereby said pad insulator and said remaining portion of said isolation insulator layer are removed in the same step and said isolation plugs fill said apertures without CMP."

Pertaining to independent claim 21, "...performing before said step of forming set of apertures in areas of pad insulator..."

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stanetta D. Isaac whose telephone number is 571-272-1671. The examiner can normally be reached on Monday-Friday 9:30am -6:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Lebentritt can be reached on 571-272-1873. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Stanetta Isaac Patent Examiner February 17, 2006

MICHAEL LEBENTRITT
SUPERVISORY PATENT EXAMINER